

Appendix I: Nonpoint Source Tables

Table I - 1. Regional NPS Problems by Management Measure Category

Pollutant(s) impairing or threatening Beneficial Uses by Management Measure Category		
Watershed/waterbody	Agriculture	Urban
Salton Sea Transboundary Watershed/ Alamo River (52 miles)	Silt Selenium Pesticides	
Salton Sea Transboundary Watershed/ New River (60 miles)	Silt Pesticides Nutrients	Pathogens VOCs
Salton Sea Transboundary Watershed/ Imperial Valley Drains (1,305 miles)	Silt Selenium Pesticides	
Salton Sea Transboundary Watershed/ Salton Sea (220,000 saline lake acres)	Salt Nutrients Selenium	
Salton Sea Transboundary Watershed/ Coachella valley Stormwater Channel (20 miles)	Pathogens	Pathogens
Lower Colorado River Watershed/ Palo Verde Outfall Drain (16 miles)	Pathogens	Pathogens

Table I - 2. Nonpoint Source Pollution Control Short Term Objectives

Objective	Goal that the Objective Fulfills	2002	2003	2004	2005	2006	Management Measures	Funded in FY 2003/2004 ?
Achieve Alamo River Sediment TMDL Implementation milestones	Goals 1 & 3	X	X	X	X	X	1A, 1F, 1G	
Achieve New River Sediment TMDL Implementation milestones	Goals 1 & 3		X	X	X	X	1A, 1F, 1G	
Achieve Imperial Valley Drains Sediment TMDL Implementation milestones	Goals 1 & 3			X	X	X	1A, 1F, 1G	
Achieve New River Pathogens TMDL Implementation milestones	Goal 2	X	X	X	X	X		
Develop Salton Sea Nutrients TMDL Implementation Plan	Goals 3 & 4	X	X	X				
Implement Salton Sea Nutrients TMDL	Goals 1, 3 & 4				X	X	1C, 1F, 1G	
Develop Selenium TMDL Implementation Plan	Goals 3 & 4				X	X		
Develop pesticides TMDLs Implementation Plan	Goals 3 & 4					X		
Conduct comprehensive water quality monitoring, assessment, and reporting	Goals 3 & 6	X	X	X	X	X		
Determine the quantitative performance of sediment control management measures	Goals 1, 3, & 6	X	X	X	X	X		
Tracking and oversight of implementation of the Tier 1 Imperial Co. Farm Bureau Watershed Program	Goals 1, 3, 4, & 6	X	X	X	X	X	1A, 1C, 1D, 1F, 1G	
Provide financial and technical assistance for the development of demonstrations of BMPs	Goals 1, 3, 4, 6 & 7	X	X	X	X	X	1A, 1C, 1D, 1F, 1G	

Objective	Goal that the Objective Fulfills	2002	2003	2004	2005	2006	Management Measures	Funded in FY 2002/2003?
Provide financial and tech. assistance for the development of watershed plans	Goals 1, 3, 4, & 7	X	X	X	X	X	1A, 1C, 1D, 1F, 1G	
Develop and implement an effective regulatory, educational, and assistance structure to address pollution from septic systems	Goals 1, 4, 5 & 7	X	X	X	X	X	3, 4 B	
Develop comprehensive ground water maps of drinking water aquifers and potential sources of pollution and assess data gaps	Goals 1 & 5	X	X	X				

Table I – 3. Education, Outreach, AND Technical Assistance

Target Audience	Education/Outreach/ Assistance Goals	Product(s)	Staff or Contract	Management Measure Category
Salton Sea Nutrients TMDL Technical Advisory Committee (TAC)	<ul style="list-style-type: none"> - Provide RB staff with technical assistance on TMDL Implementation 	<ul style="list-style-type: none"> - Monthly meetings - Formal TAC recommendations 	Staff	Agriculture 1A, 1F, 1G
Imperial County Farm Bureau	<ul style="list-style-type: none"> - Effective implementation of the Farm Bureau NPS Initiative to attain measurable water quality improvement 	<ul style="list-style-type: none"> - Coordination with the Farm Bureau Watershed Coordinator - Regular tracking reports - Verification of tracking reports - Coordination with each of 10 “drainshed” groups established as part of the Farm Bureau Plan 	Staff/ Contract	Agriculture
Imperial and Coachella Valleys Growers and Irrigators	<ul style="list-style-type: none"> - TMDL implementation requirements - Sediment and nutrients control BMPs 	<ul style="list-style-type: none"> - Grower-targeted video - Irrigator-targeted video, handbook, and technical assistance software and public forums on BMPs - Demonstration project using irrigation strategies aimed at reducing polluted runoff water 	Contract	Agriculture 1A, 1C, 1G
Citizens Congressional Task Force for the New River	<ul style="list-style-type: none"> - Volunteer monitoring 	<ul style="list-style-type: none"> - Volunteer monitoring kits and guidebooks for local high schools 	Contract	Wetlands 6C, 6D
Nationwide	<ul style="list-style-type: none"> - Provide information about Salton Sea problems/issues 	<ul style="list-style-type: none"> - 1-hour informational documentary to be aired on PBS about the Salton Sea 	Contract	Agriculture 1G

Target Audience	Education/Outreach/ Assistance Goals	Product(s)	Staff or Contract	Management Measure Category
Web-savvy public	- Provide up-to-date information on NPS issues, TMDLs, water quality reports	- Regularly updated webpage	Staff	

Table I – 4. Waivers of Waste Discharge

Waiver No./Name/Description	Management Measures	Review Schedule
93-004/Minor Dredging Operations/where soil is non-toxic and discharged to land	Hydromodification	January 2008

Table I – 5. Key Partners

Existing or Potential Partner Agency:	MOU/MAA Title Content of potential/revised agreements:	Target date for review (existing) or adoption (potential):	Management Measure Categories:
U.S. Bureau of Land Management	MOU between U.S. BLM and RWQCB 7	No review necessary	5.1B, 5.3A, 5.4A, 6A, 6B, 6D
Imperial Irrigation District	Sediment Control Water Quality Monitoring	December 2002	1A, 1C, 1D
Natural Resources Conservation Service (NRCS)	Shared priorities and goals	State Board is working on MOU	1A, 1B, 1C, 1E, 1F, 1G
Imperial County Farm Bureau	Commitment to implement Watershed Program	December 2002	1A, 1C, 1D, 1F, 1G

Table I – 6. Targeted EQIP Projects

Project Description	Geographic Location	Management Measures
Erosion Control Projects	Salton Sea Transboundary Watershed	Agriculture
Erosion and nutrient management education/outreach projects	Salton Sea Transboundary Watershed	Agriculture
Nutrient management projects	Salton Sea Transboundary Watershed	Agriculture

Table I – 7. Proposed SFY 2002/03 Resource Allocation

Task	Product	Management Measure(s)	Geographic Area	Funding Source	Cost PYs/Dollars
1. Alamo and New Rivers and Imperial Valley Ag. Drains Sediment TMDL Implementation Planning and Monitoring	<ul style="list-style-type: none"> - Monthly monitoring at strategic stations in the Alamo and New Rivers and Imperial Valley Ag. Drains - Quarterly data reports - Year-end data report 	1A, 1G, 1f	Salton Sea Transboundary Watershed	State	1.0 PY
2. Lab analysis services for Alamo and New Rivers and Imperial Valley Ag. Drains Sediment TMDLs	<ul style="list-style-type: none"> - Lab analysis 		Salton Sea Transboundary Watershed	State	\$100,000 (0.8 PY)
3. Alamo River Sediment TMDL Implementation	<ul style="list-style-type: none"> - Coordination with Imperial County Farm Bureau to implement NPS Watershed Program - Regular tracking reports - Technical assistance to local “drainshed” groups in the formation of their plans - Tracking of management measure implementation 	1A, 1G, 1F	Salton Sea Transboundary Watershed	Fed 319 (h)	0.7 PY

Task	Product	Management Measure(s)	Geographic Area	Funding Source	Cost PYs/Dollars
4. New River Pathogens TMDL Implementation Planning and Monitoring	<ul style="list-style-type: none"> - Coordination with NPDES program to address point source facilities in the region - Modified NPDES permits if needed 		Salton Sea Transboundary Watershed	State	0.2 PY
5. Salton Sea Nutrients TMDL Implementation Planning and Monitoring	<ul style="list-style-type: none"> - Stakeholder groups, research on nutrient control technology, year-end report - Field monitoring activities 	1C, 1F, 1G	Salton Sea Transboundary Watershed	State	0.4 PY
				Fed 319 (h)	0.3 PY
6. Palo Verde Outfall Drain Pathogen TMDL Monitoring	<ul style="list-style-type: none"> - Field activities and lab services 		Lower Colorado River Watershed	State	\$100,000 (0.8 PY)
7. NPS Program Management	<ul style="list-style-type: none"> - Participation in the NPS Roundtables, Conferences, and Workshops - Review of NPS Program documents 	1A, 1C, 1D, 1F, 1G	Regionwide	Fed 319 (h)	0.5 PY
				State	0.5 PY
8. Fed 319 (h) and State Prop 13 Grant Solicitation	<ul style="list-style-type: none"> - Technical assistance and stakeholder outreach for completion of 319 (h) and Prop 13 Proposals 	1A, 1C, 1D, 1F, 1G	Regionwide	Fed 319 (h)	0.2 PY
				State	0.2 PY

Task	Product	Management Measure(s)	Geographic Area	Funding Source	Cost PYs/Dollars
9. Fed 319 (h) and State Prop 13 Contract management	<ul style="list-style-type: none"> - Contract management of contracts awarded to contractors in the region 	1A, 1C, 1D, 1F, 1G	Regionwide State	Fed 319 (h)	0.6 PY
					0.2 PY
10. Public Education and Outreach to Promote TMDL Implementation	<ul style="list-style-type: none"> - Speak at stakeholder forums - Prepare outreach newsletters, bulletins about TMDL Implementation - Attend stakeholder conventions/meetings 	1G	Regionwide	State	0.3 PY

TOTAL STAFF COST = 6.7 PY = \$837,500

Table I – 8. NPS Resource Need 2002/03 Through 2004/2005

Task	Product	Management Measure(s)	Geographic Area	State Fiscal Year	Est. Cost PYs/Dollars
1. Alamo and New Rivers and Imperial Valley Ag. Drains Sediment TMDL Implementation Planning and Monitoring	<ul style="list-style-type: none"> - Monthly monitoring at strategic stations in the Alamo and New Rivers and Imperial Valley Ag. Drains - Quarterly data reports - Year-end data report 	1A, 1G, 1f	Salton Sea Transboundary Watershed	2002/03 2003/04 2004/05	1.0 PY 0.5 PY 0.5 PY
2. Lab analysis services for Alamo and New Rivers and Imperial Valley Ag. Drains Sediment TMDLs	<ul style="list-style-type: none"> - Lab analysis 		Salton Sea Transboundary Watershed	2002/03 2003/04 2004/05	\$100,000 (0.8 PY) \$50,000 (0.4 PY) \$50,000 (0.4 PY)
3. Alamo River Sediment TMDL Implementation	<ul style="list-style-type: none"> - Coordination with Imperial County Farm Bureau to implement NPS Watershed Program - Regular tracking reports - Technical assistance to local “drainshed” groups in the formation of their plans - Tracking of management measure implementation 	1A, 1G, 1F	Salton Sea Transboundary Watershed	2002/03 2003/04 2004/05	0.7 PY 0.7 PY 0.7 PY

Task	Product	Management Measure(s)	Geographic Area	State Fiscal Year	Est. Cost PYs/Dollars
4. New River Pathogens TMDL Implementation Planning and Monitoring	<ul style="list-style-type: none"> - Coordination with NPDES program to address point source facilities in the region - Modified NPDES permits if needed 		Salton Sea Transboundary Watershed	2002/03 2003/04 2004/05	0.2 PY 0.2 PY 0.2 PY
5. Salton Sea Nutrients TMDL Implementation Planning and Monitoring	<ul style="list-style-type: none"> - Stakeholder groups, research on nutrient control technology, year-end report - Field monitoring activities 	1C, 1F, 1G	Salton Sea Transboundary Watershed	2002/03 2003/04 2004/05	0.7 PY 0.7 PY 0.7 PY
6. Palo Verde Outfall Drain Pathogen TMDL Monitoring	<ul style="list-style-type: none"> - Field activities and lab services 		Lower Colorado River Watershed	2002/03 2003/04 2004/05	\$100,000 \$100,000 \$100,000
7. NPS Program Management	<ul style="list-style-type: none"> - Participation in the NPS Roundtables, Conferences, and Workshops - Review of NPS Program documents 	1A, 1C, 1D, 1F, 1G	Regionwide	2002/03 2003/04 2004/05	1.0 PY 1.0 PY 1.0 PY

Task	Product	Management Measure(s)	Geographic Area	State Fiscal Year	Est. Cost PYs/Dollars
8. Fed 319 (h) and State Prop 13 Grant Solicitation	- Technical assistance and stakeholder outreach for completion of 319 (h) and Prop 13 Proposals	1A, 1C, 1D, 1F, 1G	Regionwide	2002/03 2003/04 2004/05	0.4 PY 0.4 PY 0.4 PY
9. Fed 319 (h) and State Prop 13 Contract management	- Contract management of contracts awarded to contractors in the region	1A, 1C, 1D, 1F, 1G	Regionwide	2002/03 2003/04 2004/05	0.8 PY 0.8 PY 0.8 PY
10. Public Education and Outreach to Promote TMDL Implementation	- Speak at stakeholder forums - Prepare outreach newsletters, bulletins about TMDL Implementation - Attend stakeholder conventions/meetings	1G	Regionwide	2002/03 2003/04 2004/05	0.3 PY 0.3 PY 0.3 PY

TOTAL STAFF COST = 17.5 PY = \$2,187,500

Table I – 9. Funding Sources

Project Type and Description	Potential Funding Sources												Watersheds												
	<i>State Water Resources Control Board</i>	CWA Section 319(h) Nonpoint Source	Proposition 13 (Water Quality)	Proposition 13 (Water Recycling)	CWA Section 205(j) Planning	<i>Regional Boards</i>	Supplemental Env. Projects	<i>Department of Water Resources</i>	Proposition 13 (Flood Protection)	Proposition 13 (Urban Streams)	Proposition 13 (Ground Water Recharge)	Proposition 13 (Water Conservation)	<i>Department of Parks and Recreation</i>	Proposition 12 (Riparian/Riverine)	Habitat Conservation Fund	<i>State Coastal Conservancy</i>	So. Calif. Wetlands Recovery Project	<i>CA Wildlife Conservation Board</i>	Proposition 12 (Riparian Habitat)	Natural Heritage Tax Credit Program	<i>Department of Fish and Game</i>	Fisheries Restoration Grants	<i>NOAA</i>	Community-based Rest. Grants	<i>California Resources Agency</i>
Implement BMPs/Improve Water Quality		X	X				X																		
TMDL Implementation		X	X				X																		
Implement Agricultural Sedimentation/ Erosion Control Projects – could include projects that reduce inputs of sediment to receiving waters or that treat surface waters for pollutant		X	X				X																		
Implement Nutrients Control Projects – could include projects that reduce inputs of nutrients to receiving waters or that treat surface waters for pollutant		X	X				X																		
Implement Pesticides Control Projects – could include projects that reduce inputs of pesticides to receiving waters or that treat surface waters for pollutant		X	X				X																		
	A		A				A																		
	A		A				A																		
	A		A				A																		

Under “Watersheds” C=highly ranked projected; B=higher ranked projects; A=highest ranked projects

Project Type and Description	Potential Funding Sources												Watersheds																																					
	State Water Resources Control Board			CWA Section 319(h) Nonpoint Source			Proposition 13 (Water Quality)			Proposition 13 (Water Recycling)			CWA Section 205(j) Planning			Regional Boards		Department of Water Resources		Supplemental Env. Projects		Department of Parks and Recreation		Proposition 13 (Flood Protection)		Proposition 13 (Urban Streams)		Proposition 13 (Ground Water Recharge)		Proposition 13 (Water Conservation)		So. Calif. Wetlands Recovery Project		State Coastal Conservancy		Habitat Conservation Fund		Proposition 12 (Riparian Habitat)		Natural Heritage Tax Credit Program		Department of Fish and Game		Fisheries Restoration Grants		Community-based Rest. Grants		California Resources Agency		Coastal Resources Grant Program
Implement Wetlands Demonstration Projects – should focus on treatment of polluted agricultural drain water and/or New River water	X	X																																																
Implement Selenium Control Projects – could include projects that reduce inputs of Selenium to receiving waters or that treat surface waters for pollutant	X	X					X																																											
Ground Water Pollution Abatement Project(s) – projects that aim to protect ground water aquifers and/or aim to remediate existing ground water pollution	X	X					X																																											
Implement New River Dissolved Oxygen (DO) Improvement Projects – man-made structures to improve DO levels in the New River	X	X					X																																											
Implement New River VOCs Control Projects –	X	X					X																																											
Urban Nutrients management	X	X					X																																											
Drain Erosion Control Projects	X	X																																																
Reduce Polluted Runoff from Animal Feed Operations																																																		

Project Type and Description	Potential Funding Sources												Watersheds																																																												
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Implement Pesticides Monitoring	X																																																																								
Implement Toxic Substances Monitoring	X						X																																																																		
Education and Outreach																																																																									
Farm Water Quality Planning Courses/Software – should include components that focus on current and future TMDL water quality issues		X	X																																																																						
Irrigator Training – should include components that focus on sediment water quality issues		X	X																																																																						
Implementation Education and Stakeholder Involvement – should include on-the-ground encouragement/ coordination of discharger/ land owner NPS implementation with reporting component		X	X																																																																						
Erosion and Nutrients management Education/Outreach Projects	X	X																																																																							

Project Type and Description	Potential Funding Sources																		Watersheds		
	<i>State Water Resources Control Board</i>																				
	CWA Section 319(h) Nonpoint Source																				
	Proposition 13 (Water Quality)																				
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	Fisheries Restoration Grants																				
	<i>NOAA</i>																				
	Community-based Rest. Grants																				
	<i>California Resources Agency</i>																				
	Coastal Resources Grant Program																				
Watershed Planning																					
GIS TMDL Implementation Tracking System					X													A	A	A	A
Land Acquisition																					
Increase Wetlands Acreage										X	X	X		X	X	X		X			

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